## **Amendment to the Claims:**

This listing of claims will replace all previous versions and listings of claims in the application:

1-22. (Canceled)

- 23. (Currently amended) A method for treating identifying-HER2-positive tumor cells identified as responsive to treatment with an antibody inhibiting the association of HER2 with another member of the ErbB receptor family comprising:
- (a) providing a biological sample comprising HER2-positive tumor cells;
- (b) determining the presence of phosphorylation of an ErbB receptor in said biological sample;
- (c) identifying said HER2-positive tumor cells as responsive to treatment with said antibody if the presence of phosphorylation is determined; and
- (d) subjecting the tumor cells identified as responsive in step (c) to treatment with said antibody.
- 24. (Previously presented) The method of claim 23 wherein the presence of phosphorylation of an ErbB2 (HER2) receptor is determined.
- 25. (Previously presented) The method of claim 23 wherein the other member is selected from the group consisting of HER3, HER1 and HER4.
- 26. (Previously presented) The method of claim 23 wherein the antibody binds HER2.
- 27. (Previously presented) The method of claim 26 wherein the antibody blocks ligand activation of an ErbB heterodimer comprising HER2.
- 28. (Previously presented) The method of claim 27 wherein the antibody is rhuMAb 2C4.

29-39. (Canceled)

- 40. (Previously presented) The method of claim 23 wherein the biological sample is tissue obtained from a tumor biopsy.
- 41. (Previously presented) The method of claim 23 wherein the biological sample is a biological fluid comprising circulating tumor cells and/or circulating plasma proteins.
- 42. (Currently amended) The method of claim 23 wherein the <u>tumor cells are from a</u> tumor is-selected from the group consisting of breast cancer, prostate cancer, lung cancer, colorectal cancer and ovarian cancer.
- 43. (Previously presented) The method of claim 23 wherein the presence of ErbB receptor phosphorylation is determined by immunoprecipitation of the ErbB receptor and Western blot analysis.
- 44. (Previously presented) The method of claim 43 wherein the presence of ErbB receptor phosphorylation is indicated by the presence of a phospho-ErbB receptor band on the gel.
- 45. (Previously presented) The method of claim 43 further comprising the step of confirming ErbB receptor phosphorylation by immunohistochemistry using a phosphospecific anti-ErbB receptor antibody.
- 46. (Previously presented) The method of claim 23 wherein the presence of ErbB receptor phosphorylation is determined by immunohistochemistry.
- 47. (Currently amended) A method for <u>treating predicting the response of a subject</u> diagnosed with a HER2-positive tumor <u>and predicted to respond</u> to treatment with an antibody inhibiting the association of HER2 with another member of the ErbB receptor family comprising:
- (a) providing a biological sample obtained from said subject, comprising HER2-positive tumor cells;
- (b) determining the presence of phosphorylation of an ErbB receptor in said biological sample;
- (c) predicting that said subject is likely to respond to treatment with said antibody, if a significant level of phosphorylation is determined; and

- (d) administering said antibody to the subject predicted in step (c) as likely to respond to said treatment.
- 48. (Previously presented) The method of claim 47 wherein said ErbB receptor is ErbB2 (HER2).
- 49. (Previously presented) The method of claim 47 wherein the other member is selected from the group consisting of HER3, HER1 and HER4.
- 50. (Previously presented) The method of claim 47 wherein the antibody binds HER2.
- 51. (Previously presented) The method of claim 50 wherein the anti-HER2 antibody blocks ligand activation of an ErbB heterodimer comprising HER2.
- 52. (Previously presented) The method of claim 51 wherein the antibody is rhuMAb 2C4.
  - 53-63. (Canceled)
- 64. (Previously presented) The method of claim 47 wherein the biological sample is tissue obtained from a tumor biopsy.
- 65. (Previously presented) The method of claim 47 wherein the biological sample is a biological fluid comprising circulating tumor cells and/or circulating plasma proteins.
- 66. (Previously presented) The method of claim 47 wherein the tumor is selected from the group consisting of breast cancer, prostate cancer, lung cancer, colorectal cancer and ovarian cancer.
- 67. (Previously presented) The method of claim 47 wherein the presence of ErbB receptor phosphorylation is determined by immunoprecipitation of the ErbB receptor and Western blot analysis.
- 68. (Previously presented) The method of claim 67 wherein the presence of ErbB receptor phosphorylation is indicated by the presence of a phospho-ErbB receptor band on the gel.

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- 69. (Previously presented) The method of claim 67 further comprising the step of confirming ErbB receptor phosphorylation by immunohistochemistry using a phosphospecific anti-ErbB receptor antibody.
- 70. (Previously presented) The method of claim 47 wherein the presence of ErbB receptor phosphorylation is determined by immunohistochemistry.
- 71. (Currently amended) A method for <u>treating identifying</u> a subject <u>identified as</u> responsive to treatment with an anti-HER2 antibody inhibiting the association of HER2 with another member of the ErbB receptor family comprising
- a) determining the presence of phosphorylation of an ErbB receptor in circulating tumor cells of said subject,
- b) determining that said subject is likely to respond to treatment with an said anti-HER2 antibody if the presence of said phosphorylation is determined, and
- c) following determination in step b) that said subject is likely to respond to treatment, treating said subject with said anti-HER2 antibody.
- 72. (Previously presented) The method of claim 71 wherein ErbB2 (HER2) phosphorylation is determined.
- 73. (Previously presented) The method of claim 72 wherein said subject is a human.

74-88. (Canceled)